



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

D3910-3

Job Sheet 201194



PL
21

Part No: D3910-3

Job Qty: 30 pcs

Part Name: Crosstube Lug



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 9/27/19

Job Tracking No:

Due Date: 10/21/19

Created By: Marie Lajeunesse

Type: Stock

Description:

Note: DWG REV E SHEETS 1,3 IPP REV:A NEW ISSUE 09-11-25 JLM VERIFIED BY:DD IPP REV:B AS PER REV B 10-03-23 JLM VERIFIED BY:DD IPP REV:C 18.02.02 REMOVE FINISH DD VERF:JFS

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
110	Purchasing	30 pcs	10/21/19		0.00	0.00	Purchasing - 1	5	
							Purchasing - 2	5	
							Purchasing - 3	5	
120	Packaging 2-1 - Receive - B4B	30 pcs	10/21/19		0.00	0.00	Packaging 2 - 1 - B4B		DP OCT 04 2019
							Packaging 2 - 2 - B4B		
							Packaging 2 - 3 - B4B		
							Packaging 2 - 5 - B4B		DP OCT 04 2019
							Packaging 2 - 4 - B4B		
							Packaging 2 - 6 - B4B		
							Packaging 2 - 7 - B4B		
							Packaging 2 - 8 - B4B		
							Packaging 2 - 9 - B4B		
							Packaging 2 - 10 - B4B		
							Packaging 2 - 11 - B4B		
							Packaging 2 - 12 - B4B		
							Packaging 2 - 13 - B4B		
							Packaging 2 - 14 - B4B		
							Packaging 2 - 15 - B4B		
							Packaging 2 - 16 - B4B		
							Packaging 2 - 17 - B4B		
							Packaging 2 - 18 - B4B		
							Packaging 2 - 19 - B4B		



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Container No: S219904



Part: D3910-3

Job No: 201194

Serial No/Batch: S219904

Revision:

Inspector:

Exp Date:

Instructions: Various STC's

Date: 10/04/19

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				Packaging 2 - 20 - B4B	
				Packaging 2 - 21 - B4B	
				Packaging 2 - 22 - B4B	
				Packaging 2 - 23 - B4B	
				Packaging 2 - 24 - B4B	
				Packaging 2 - 25 - B4B	
				Packaging 2 - 26 - B4B	
				Packaging 2 - 27 - B4B	
				Packaging 2 - 28 - B4B	
				Packaging 2 - 29 - B4B	
				Packaging 2 - 30 - B4B	
				Packaging 2 - 31 - B4B	
				Packaging 2 - 32 - B4B	
				Packaging 2 - 33 - B4B	
				Packaging 2 - 34 - B4B	
				Packaging 2 - 35 - B4B	
				Packaging 2 - 36 - B4B	
130	QC 6	30 pcs	10/21/19	0.00 0.00	QC 6 - 9
				QC 6 - 68	DAS
				QC 6 - 61	81
				QC 6 - 40	9-89
				QC 6 - 81	
180	Packaging 3-1 - Stock - B4B	30 pcs	10/21/19	0.00 0.00	Packaging 3 - 1 - B4B
					Packaging 3 - 2 - B4B
					Packaging 3 - 3 - B4B
					Packaging 3 - 4 - B4B
					Packaging 3 - 5 - B4B
					Packaging 3 - 6 - B4B
					Packaging 3 - 7 - B4B
					Packaging 3 - 8 - B4B
					Packaging 3 - 9 - B4B
					Packaging 3 - 10 - B4B
					Packaging 3 - 11 - B4B
					Packaging 3 - 12 - B4B
					Packaging 3 - 13 - B4B
					Packaging 3 - 14 - B4B
					Packaging 3 - 15 - B4B
					Packaging 3 - 16 - B4B
					Packaging 3 - 17 - B4B

					Packaging 3 - 18 - B4B	
					Packaging 3 - 19 - B4B	
					Packaging 3 - 20 - B4B	
					Packaging 3 - 21 - B4B	
					Packaging 3 - 22 - B4B	
					Packaging 3 - 23 - B4B	PC 523
					Packaging 3 - 24 - B4B	
					Packaging 3 - 25 - B4B	
					Packaging 3 - 26 - B4B	
					Packaging 3 - 27 - B4B	
					Packaging 3 - 28 - B4B	
					Packaging 3 - 29 - B4B	
					Packaging 3 - 30 - B4B	
					Packaging 3 - 31 - B4B	
					Packaging 3 - 32 - B4B	
					Packaging 3 - 33 - B4B	
					Packaging 3 - 34 - B4B	
					Packaging 3 - 35 - B4B	
					Packaging 3 - 36 - B4B	
190 QC 21 - SA	30 pcs	10/21/19	0.00 0.00	QC 21 - SA - 21		
				QC 21 - SA - 70		OCT 15 2019 70
				QC 21 - SA - 53		9-89

Part Op 110 - (Purchasing) ISSUE PO TO METEC, NOTE ALODINE AND PAINT AS PER QSI 005
 Descriptions: 120 - (Receive & Inspect for Damage & Mat'l Certs) Ensure C of C is attach
 130 - (QC6- All purchased or subcontracted products)
 180 - (Identify as per dwg & Stock Location: _____)
 190 - (QC21- Final Inspection - Work Order Release)

PO#B044626 x 30 Alex 27 SEP 2019

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
D2423	Lug Extrusion	3.7500 ft. (125 ea)	110-Purchasing	5141186
D3910-3P	Crosstube Lug	30 pcs (1 ea)	110-Purchasing	5219902
		21 pcs		

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
110-Purchasing	D2423	4	410	0
	D3910-3P	30	0	0

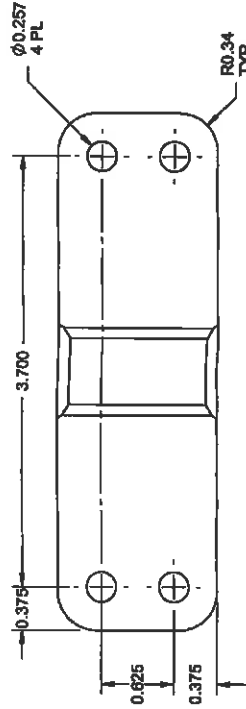
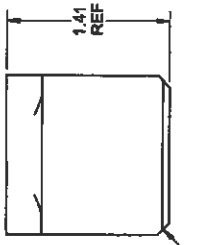
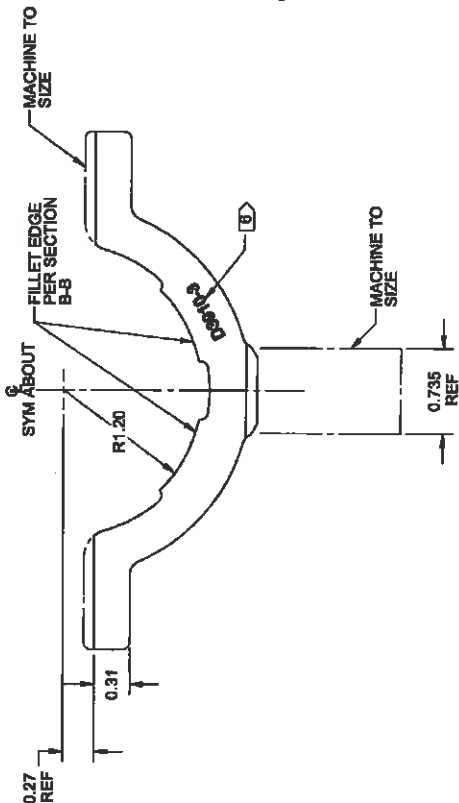
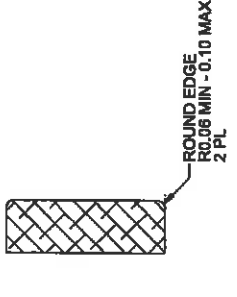
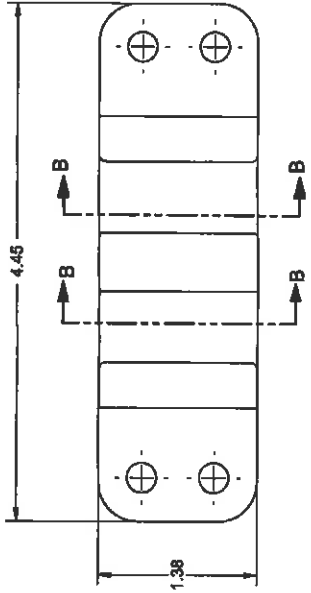
Part Specifications					
Spec No	Description	Target/Tolerance	Limits	Type	Special Comments
1	Crosstube Lug	4.450Inches $\pm$ 0.030	4.480 4.420		
2	Crosstube Lug	1.380Inches $\pm$ 0.030	1.410 1.350		
3	Crosstube Lug	0.080Inches $\pm$ 0.020	0.100 0.060	Radius	
4	Crosstube Lug	0.270Inches $\pm$ 0.030	0.300 0.240	reference	
5	Crosstube Lug	0.310Inches $\pm$ 0.030	0.340 0.280		
6	Crosstube Lug	0.735Inches $\pm$ 0.010	0.745 0.725	reference	
7	Crosstube Lug	1.200Inches $\pm$ 0.030	1.230 1.170	Radius	
8	Crosstube Lug	3.700Inches $\pm$ 0.010	3.710 3.690		
9	Crosstube Lug	0.375Inches $\pm$ 0.010	0.385 0.365		
10	Crosstube Lug	0.625Inches $\pm$ 0.010	0.635 0.615		
11	Crosstube Lug	0.375Inches $\pm$ 0.010	0.385 0.365		
12	Crosstube Lug	0.340Inches $\pm$ 0.030	0.370 0.310	Radius	
13	Crosstube Lug	0.257Inches $\begin{matrix} + 0.006 \\ - 0.001 \end{matrix}$	0.263 0.256	Diameter	
14	Crosstube Lug	0.100Inches $\pm$ 0.010	0.110 0.090		
15	Crosstube Lug	45.000Degrees $\pm$ 0.500	45.500 44.500	angle	
16	Crosstube Lug	1.410Inches $\pm$ 0.030	1.440 1.380	Reference	

Plex 9/27/19 7:44 AM Dart.lajeunesse.marie

1 2 3 4 5 6 7 8

STUDY
DESIGN
DRAWING
CHECKED
DATE

WORK ORDER
201194 MJS
(14-09-27)



RELEASED
2014 JUN 05

DESIGN	AJS	DART AEROSPACE LTD
DRAWN	AJS	HAWKSBURY, ONTARIO, CANADA
CHECKED	JA	DRAWING NO. D3910
MFG. APPR.	JA	REV. E
APPROVED	JA	SHEET 3 OF 3
DE APPR.	JA	SCALE
DATE	14.05.16	TITLE X-TUBE LUG (350)
		NTS

D3910-3 X-TUBE LUG

PROPERTY OF DART AEROSPACE LTD
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Entered: _____ Date: _____

WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐



DISPOSITION		DEPARTMENT/PROCESS			
Job: _____	Rework Scrap Use-as-is	Cross tube Small Fab Finishing	Skid-tube Machining Large Fab	Eng. (Non-AW) Prod. Eng. Coord. Rec/Store/Packaging	Engineering Water Jet Supplier Quality
Date: _____	Sequence #: _____	QTY Affected: _____		MRB (QS1042)	
Description Work Order Deviation		Disposition			
		Completed By			
		Lead hand / Supervisor			
		QC / QA Coordinator			
Root Cause		FAULT CATEGORY			
Operator Manufacturing Process Equip/Tooling Handling/Preservation Material Product Improvement Process Improvement Human Factors	Pressure/Forced Bending Crushing Cracks Crimp/Kink/Ripple/Wave/Twist Marks/Chatter Mislabeled Other/Details:	Contamination Misaligned/off center BOM/Route Broken/Damage/Defect Incomplete/Unclear Instructions Drill Holes Fit/Function	Power Loss/Surge Folio/Program Grain Direction Weld Wrong Stock Pulled Out of Sequence Off-set/Set-up	Positioned Wrong Outside Tolerance Drawing Finish Part Lost/Missing Misread	



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB044626



Supplier: MEM001-VC
Metec Metal Technology Inc.
20 Terry Fox Drive PO Box 781
Vankleek Hill
ON
K0B 1R0 Canada
Phone: 613 678 3957
Fax: 613 678 3956

Attention: Walz, Shigi

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: POHB044626

PO Date: 9/27/19

Due Date: 10/21/19

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Phone:

Via: Ground

Pymt Terms: Net 60

Freight Terms:

Special Comments:

Revision

Items

Line Item	Job	Part	Supplier Part No	Item No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	201214	D4091-1P			Lug : Various STC's As Per Dwg D4091 Rev. A Alodine and Paint as Per QSI 005	Firmed	-	10/21/19	20 pcs	0 pcs	20 pcs	\$17.40/pcs	\$348.00
						X20			OCT 04 2019				DP
2	201194	D3910-3P			Crosstube Lug : Various STC's As Per Dwg D3910 Rev. E Alodine and Paint as Per QSI 005	Firmed	-	10/21/19	21 pcs	0 pcs	21 pcs	\$17.40/pcs	\$365.40
						X21			OCT 04 2019				DP
3	201462	D3910-3P			Crosstube Lug : Various STC's As Per Dwg D3910 Rev. E Alodine and Paint as Per QSI 005	Firmed	-	10/21/19	9 pcs	0 pcs	9 pcs	\$17.40/pcs	\$156.60
Grand Total:													\$870.00



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Tel (613) 632-5200

PURCHASE ORDER

POHB044626



Order Notes

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Procurement Quality Clauses

- A005 RIGHT OF ENTRY
- A007 FIRST ARTICLE INSPECTION (FAI) BY SELLER, (DOCUMENTATION MAINTAINED BY SUPPLIER)
- A012 CHEMICAL AND PHYSICAL TEST REPORTS
- A016 PERSONNEL QUALIFICATION
- A017 RAW MATERIAL IDENTIFICATION (AS APPLICABLE)
- A026 CERTIFICATION OF MATERIAL CONFORMANCE
- A041 QUALITY MANAGEMENT SYSTEM
- A042 DART NOTIFICATION BY SUPPLIER
- A043 RETENTION OF QUALITY DOCUMENT
- A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM
- A049 SUPPLIER AWARENESS

A handwritten signature in black ink, likely belonging to Patrick Lussier, is written over the bottom right of the Order Notes section.

Plex 10/4/19 10:08 AM dart.lussier.patrick

Packing List

Bill Dart Aerospace Ltd.
To: 1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Canada

Ship Dart Aerospace Ltd.
To: 1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Canada

Shipment No: 25899
Shipment Date: 27-Sep-2019
Ship Via: Pick up at METEC
Order Number: 4232
Order Date: 09/27/2019

Customer Code: DART
Phone: (613) 632-9577
PO Number: POHB044626
Terms: Net 60 Days

Quantity						Description	Revision	Job Number
Item	Open	Shipped	B/O	Canceled	Unit			
1	20	20	0	0	EA	DART-D4091-1P Lug alodined and painted as per QSI 005	A	4232-01
2	30	21	9	0	EA	DART-D3910-3P Crosstube Lug alodined and painted as per QSI005	E	4232-02

RECEIVED
OCT 03 2019
DART AEROSPACE LTD.

The delivered goods must be inspected upon receipt to confirm compliance. Should there be discrepancies please notify METEC within 30 days of delivery. The goods are otherwise deemed accepted.

Received In Good Order By
Dart Aerospace Ltd.



20 Terry Fox Drive, Vankleek Hill, Ontario K0B 1R0

Tel. (613) 678-3957 & (613) 678-2782 Fax (613) 678-3956 metec@metec.ca

CERTIFICATE OF CONFORMITY

SOLD TO:

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, Ont.
K6A 1K7

SHIPPED TO:

same

Quantity	Part Number	Part Name	Dwg Rev.#	Material Batch #	Paint Batch #	P.O. Number
20	D4091-1	Lug	A	S101247	016012-1	HB044626
21	D3910-3	Crosstube Lug	E	S141186	019114-1	HB044626

MATERIAL: supplied by DART

We hereby certify that the above parts were made in conformance with applicable drawings.

METEC Metal Technology Inc.

Heather Nixon

Vankleek Hill, September 30, 2019